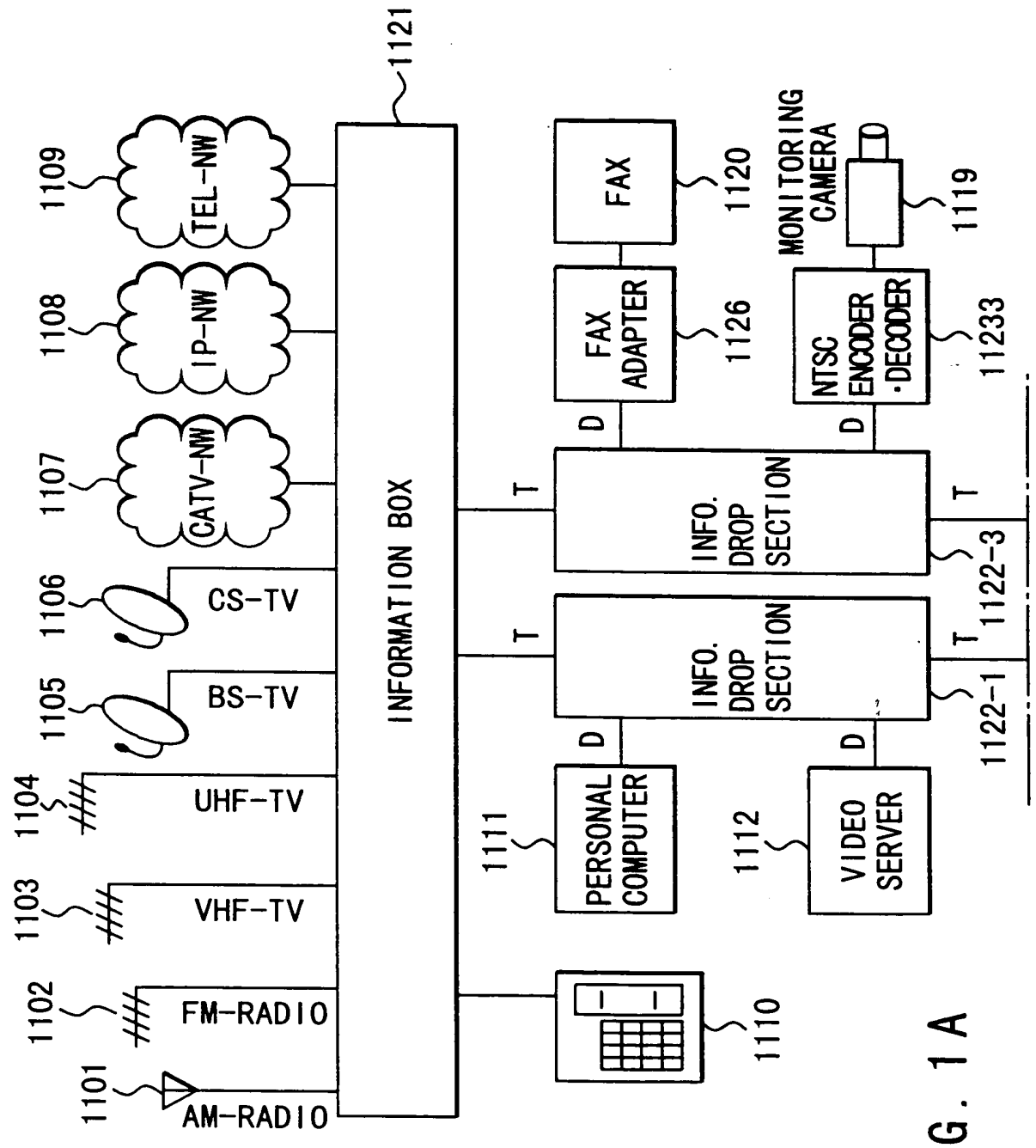

1121
INFORMATION BOX
1109
TEL-NW
1108
IP-NW
1107
CATV-NW
1106
CS-TV
1105
BS-TV
1104
UHF-TV
1103
VHF-TV
1102
FM-RADIO
1101
AM-RADIO
1110
1111
PERSONAL COMPUTER
1112
VIDEO SERVER
FAX
1120
FAX ADAPTER
1126
MONITORING CAMERA
1119
NTSC ENCODER ·DECODER
11233
INFO. DROP SECTION
1122-1
1122-3
D
T

FIG. 1A

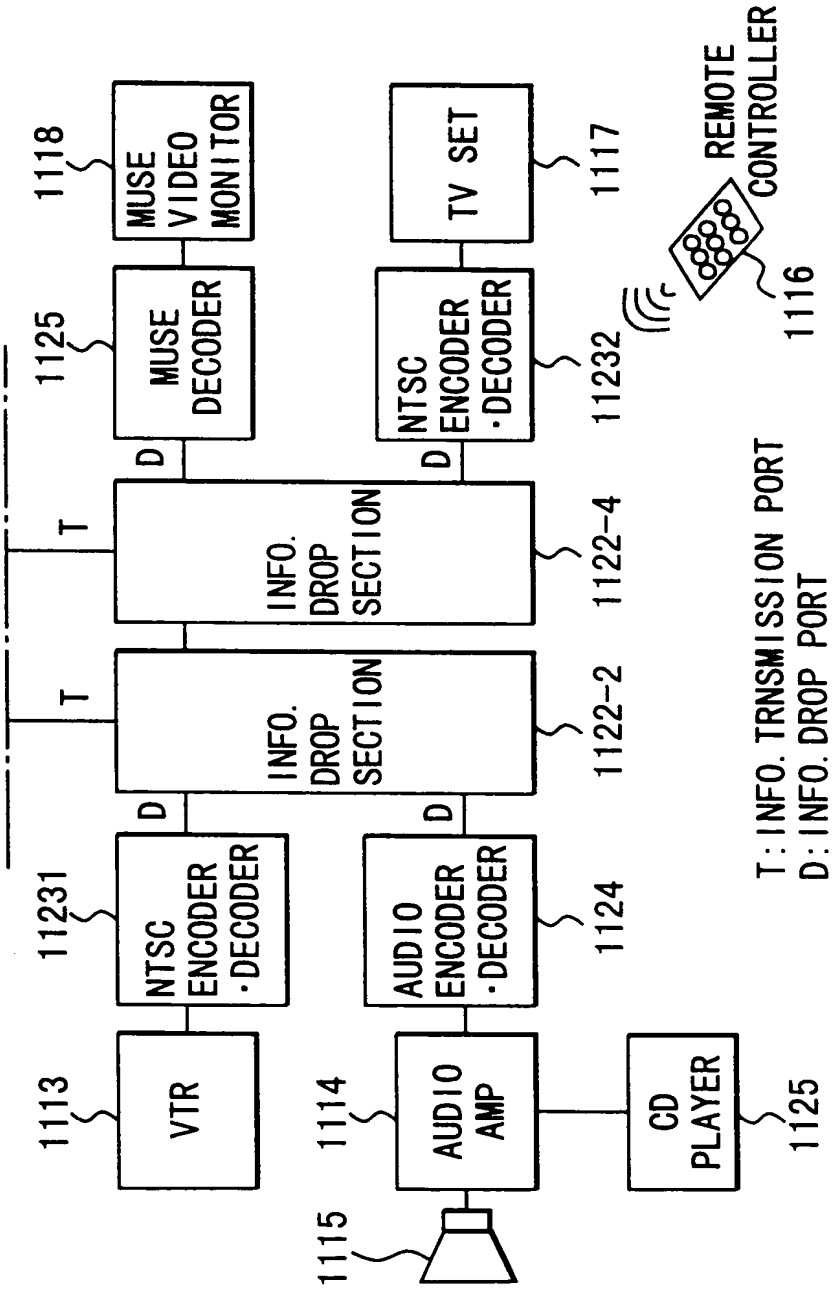

1118
MUSE VIDEO MONITOR
1125
MUSE DECODER
D
T
INFO. DROP SECTION
1122-4
D
NTSC ENCODER ·DECODER
11232
TV SET
1117
REMOTE CONTROLLER
1116
T
INFO. DROP SECTION
1122-2
D
D
11231
NTSC ENCODER ·DECODER
AUDIO ENCODER ·DECODER
1124
1113
VTR
1114
AUDIO AMP
CD PLAYER
1125
1115
T: INFO. TRNSMISSION PORT
D: INFO. DROP PORT

FIG. 1B

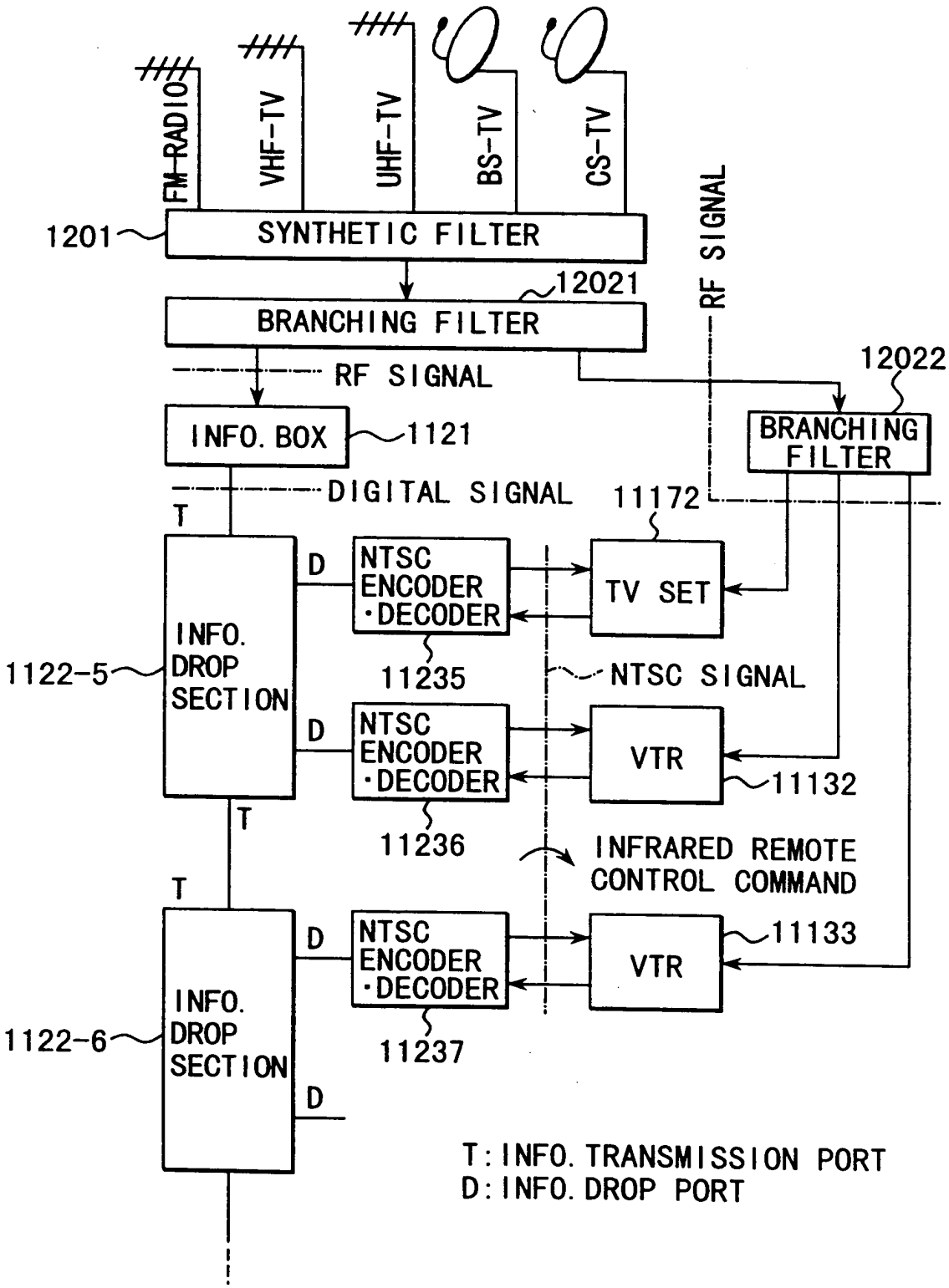

FM-RADIO
VHF-TV
UHF-TV
BS-TV
CS-TV
1201
SYNTHETIC FILTER
12021
BRANCHING FILTER
RF SIGNAL
RF SIGNAL
12022
INFO. BOX
1121
BRANCHING FILTER
DIGITAL SIGNAL
11172
T
D
NTSC ENCODER ·DECODER
TV SET
INFO. DROP SECTION
1122-5
11235
NTSC SIGNAL
D
NTSC ENCODER ·DECODER
VTR
11132
T
11236
INFRARED REMOTE CONTROL COMMAND
T
D
NTSC ENCODER ·DECODER
VTR
11133
INFO. DROP SECTION
1122-6
11237
D
T: INFO. TRANSMISSION PORT
D: INFO. DROP PORT

FIG. 2

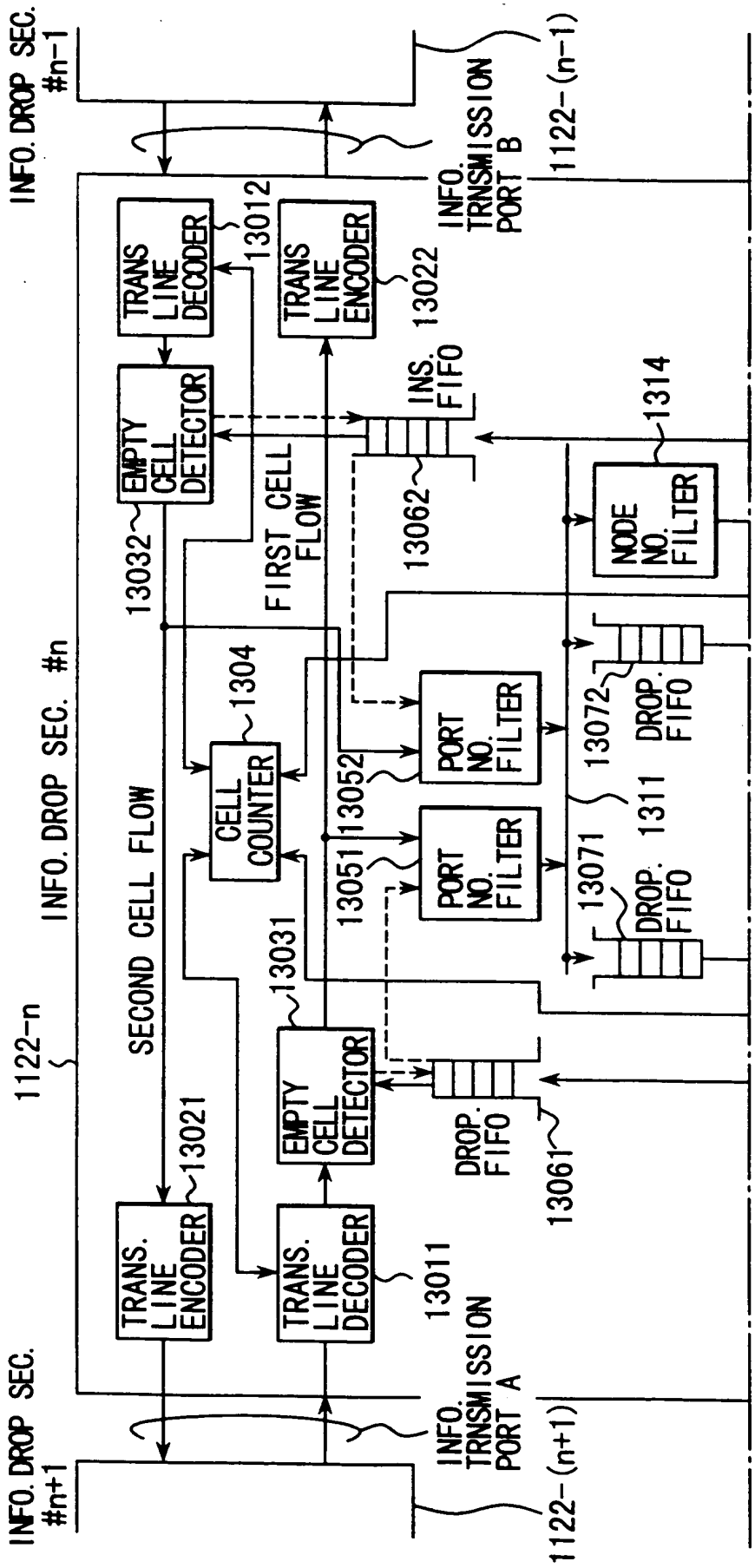

INFO. DROP SEC. #n-1
INFO. TRNSMISSION PORT B
1122-(n-1)
TRANS LINE DECODER
13012
TRANS LINE ENCODER
13022
EMPTY CELL DETECTOR
13032
INS. FIFO
13062
1314
NODE NO. FILTER
FIRST CELL FLOW
SECOND CELL FLOW
INFO. DROP SEC. #n
1122-n
1304
CELL COUNTER
13052
PORT NO. FILTER
13072
DROP. FIFO
13051
13071
1311
13031
EMPTY CELL DETECTOR
DROP. FIFO
13061
TRANS. LINE ENCODER
13021
TRANS. LINE DECODER
13011
INFO. TRNSMISSION PORT A
INFO. DROP SEC. #n+1
1122-(n+1)

FIG. 3A

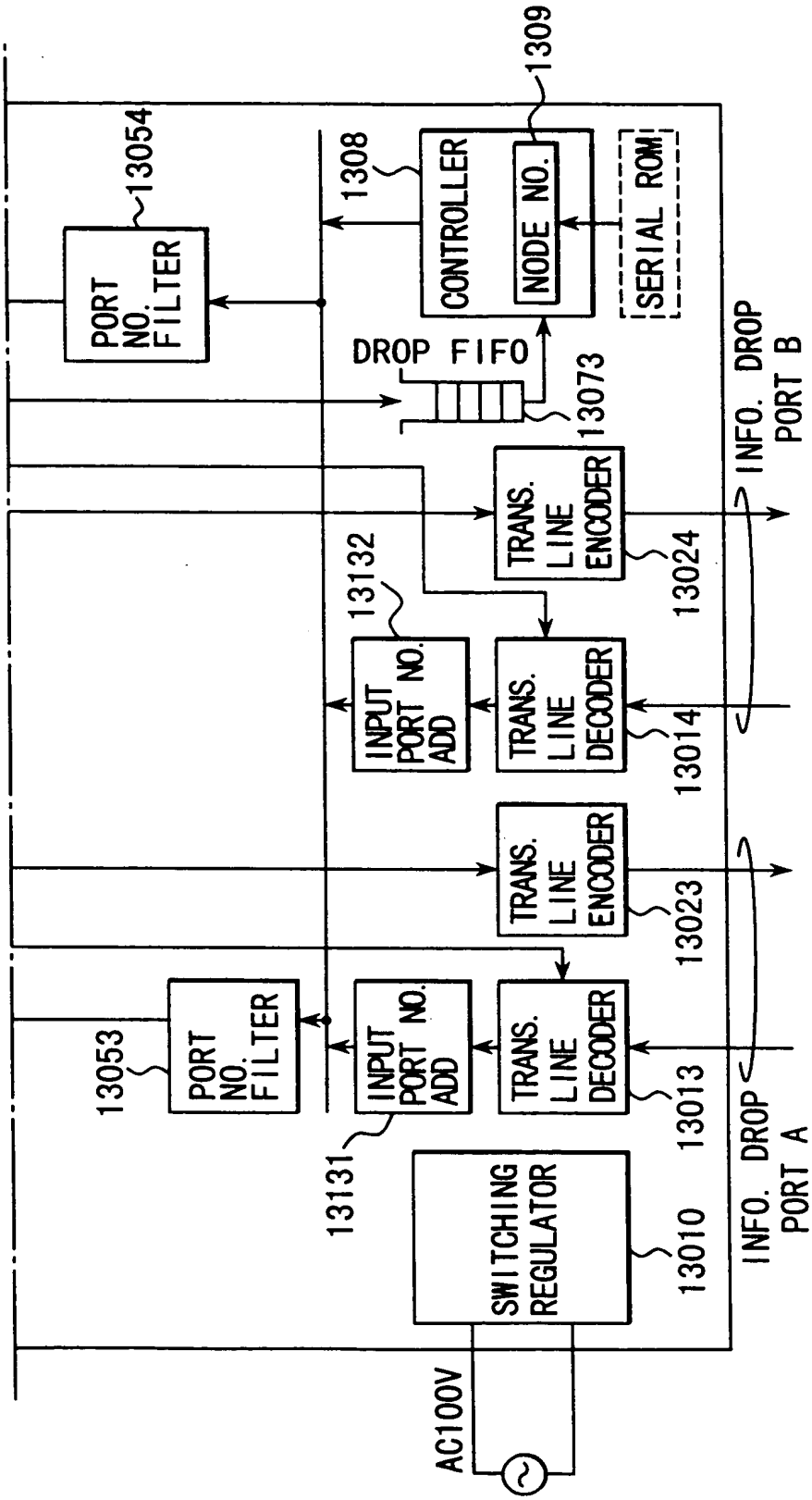
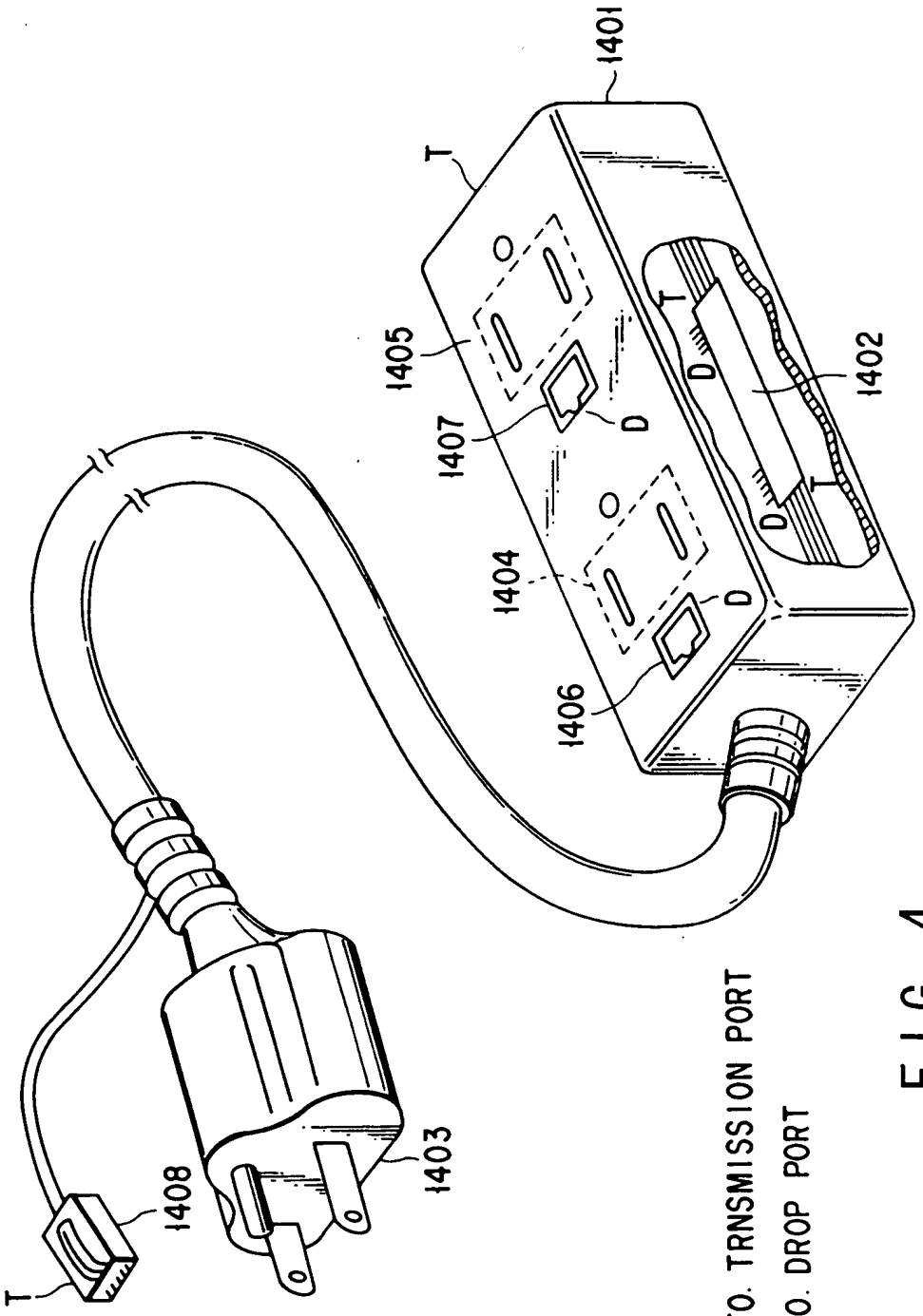

1309
13054
1308
CONTROLLER
NODE NO.
SERIAL ROM
PORT NO. FILTER
DROP FIFO
13073
INFO. DROP PORT B
TRANS. LINE ENCODER
13024
13132
INPUT PORT NO. ADD
TRANS. LINE DECODER
13014
TRANS. LINE ENCODER
13023
13053
PORT NO. FILTER
INPUT PORT NO. ADD
TRANS. LINE DECODER
13013
INFO. DROP PORT A
13131
SWITCHING REGULATOR
13010
AC100V

FIG. 3B



T: INFO. TRNSMISSION PORT

D: INFO. DROP PORT

FIG. 4

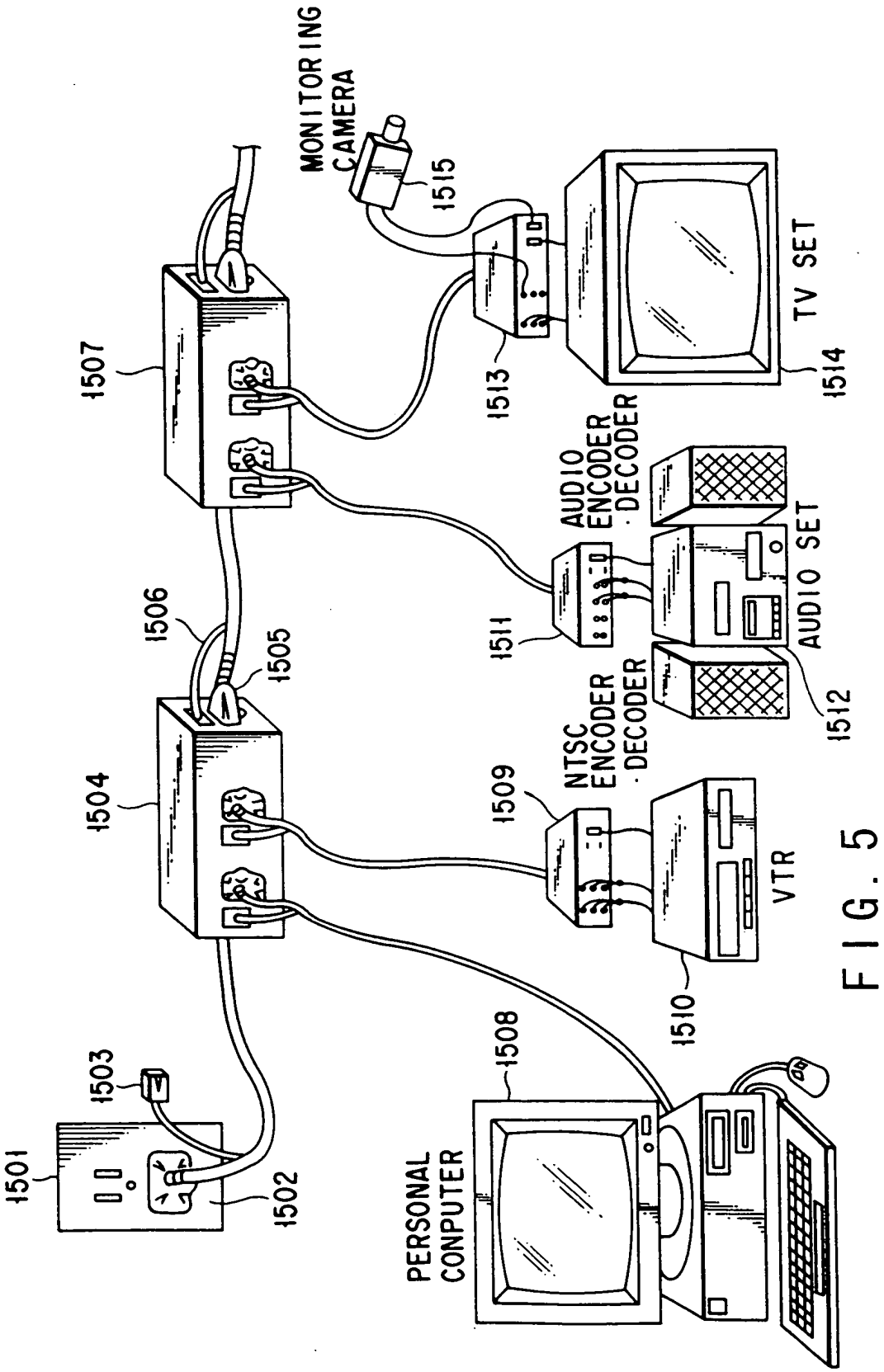

MONITORING CAMERA
1515
TV SET
1514
1513
1507
AUDIO ENCODER DECODER
AUDIO SET
1512
1511
1506
1505
1504
NTSC ENCODER DECODER
1509
VTR
1510
1508
PERSONAL CONPUTER
1503
1501
1502

FIG. 5

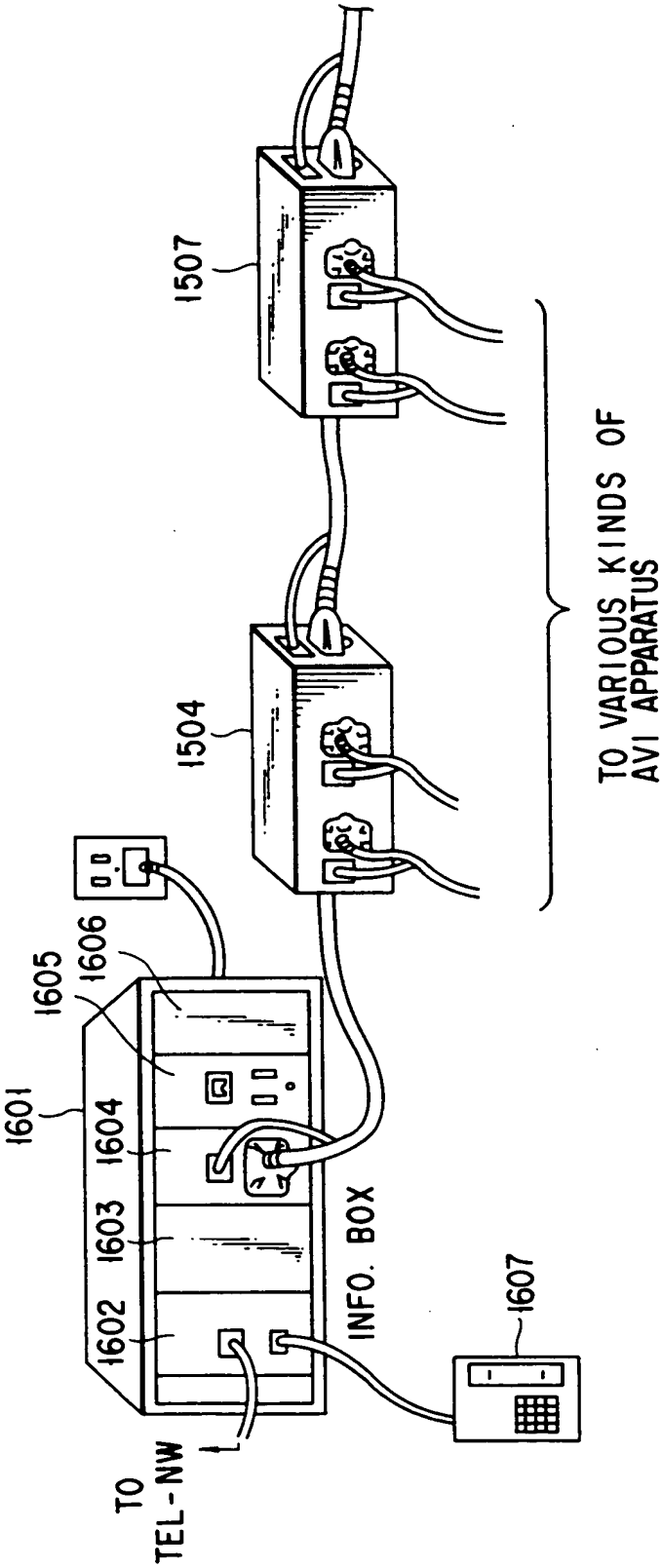
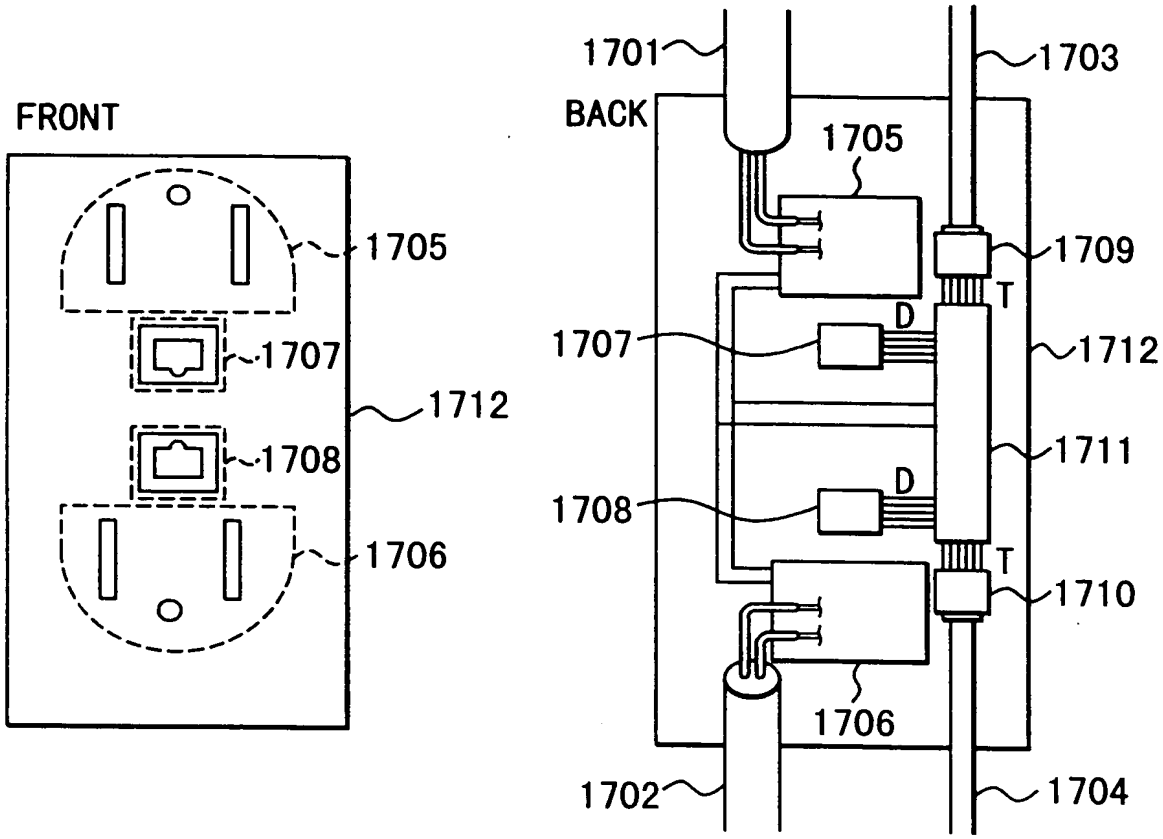

1507
1504
TO VARIOUS KINDS OF AVI APPARATUS
1605
1606
1601
1604
1603
1602
INFO. BOX
1607
TO TEL-NW

FIG. 6



T: INFO. TRANSMISSON PORT
D: INFO. DROP PORT

FIG. 7

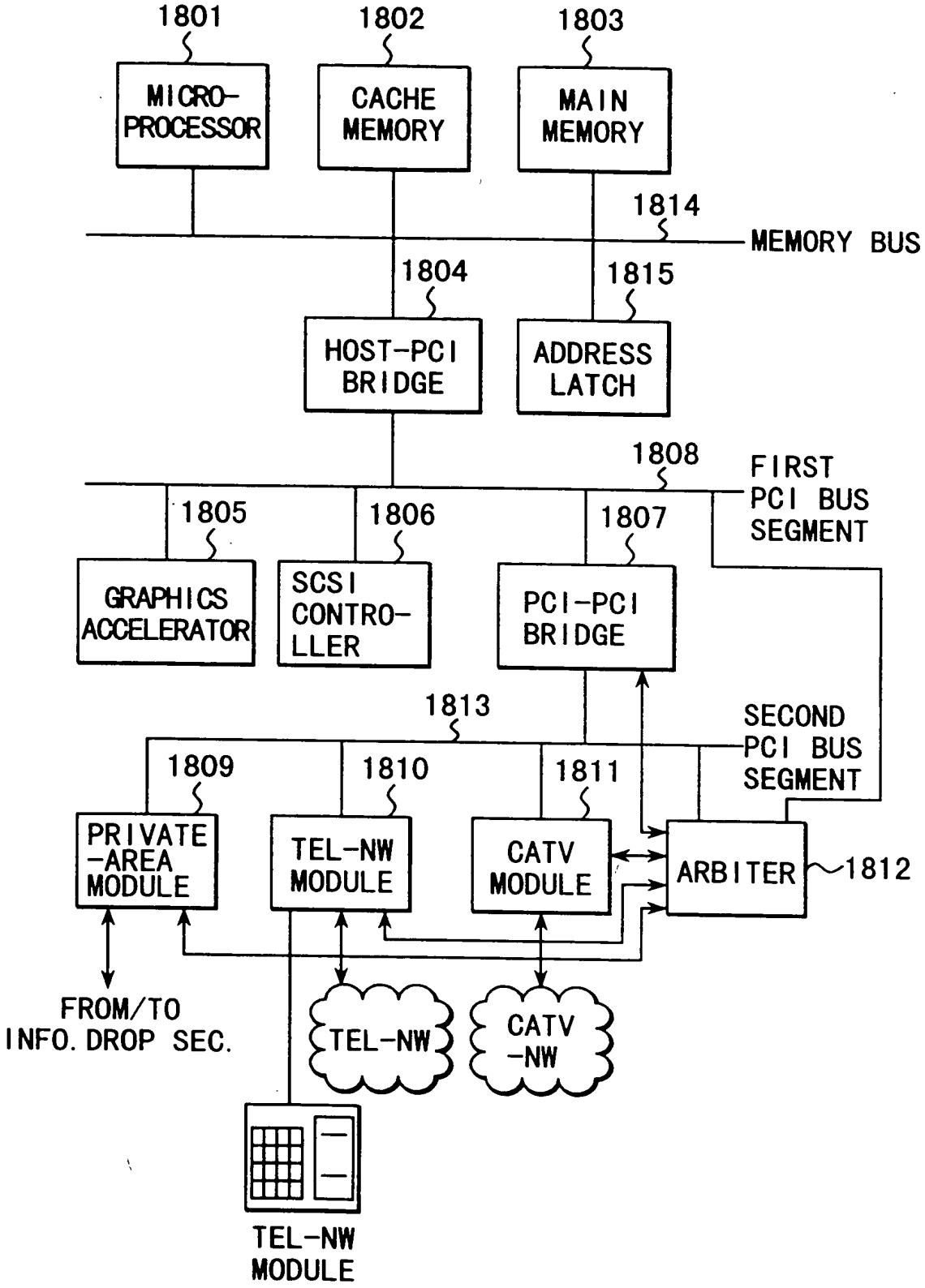

1801
1802
1803
MICRO-PROCESSOR
CACHE MEMORY
MAIN MEMORY
1814
MEMORY BUS
1804
1815
HOST-PCI BRIDGE
ADDRESS LATCH
1808
FIRST PCI BUS SEGMENT
1805
1806
1807
GRAPHICS ACCELERATOR
SCSI CONTRO-LLER
PCI-PCI BRIDGE
1813
SECOND PCI BUS SEGMENT
1809
1810
1811
PRIVATE -AREA MODULE
TEL-NW MODULE
CATV MODULE
ARBITER
1812
FROM/TO INFO. DROP SEC.
TEL-NW
CATV -NW
TEL-NW MODULE

FIG. 8

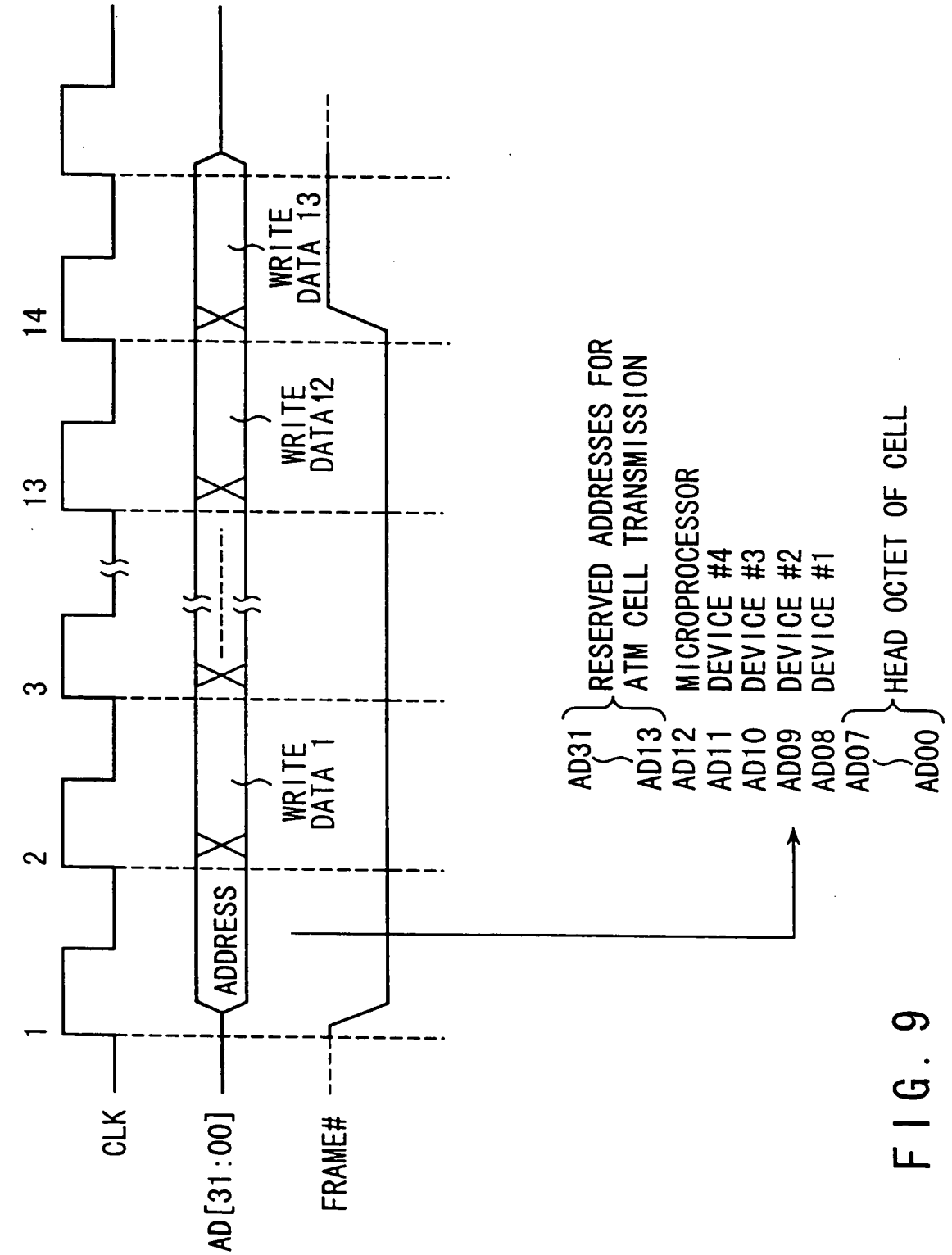

CLK
AD[31:00]
FRAME#
1
2
3
13
14
ADDRESS
WRITE DATA 1
WRITE DATA12
WRITE DATA 13
AD31
AD13
RESERVED ADDRESSES FOR ATM CELL TRANSMISSION
AD12
MICROPROCESSOR
AD11
DEVICE #4
AD10
DEVICE #3
AD09
DEVICE #2
AD08
DEVICE #1
AD07
AD00
HEAD OCTET OF CELL

FIG. 9

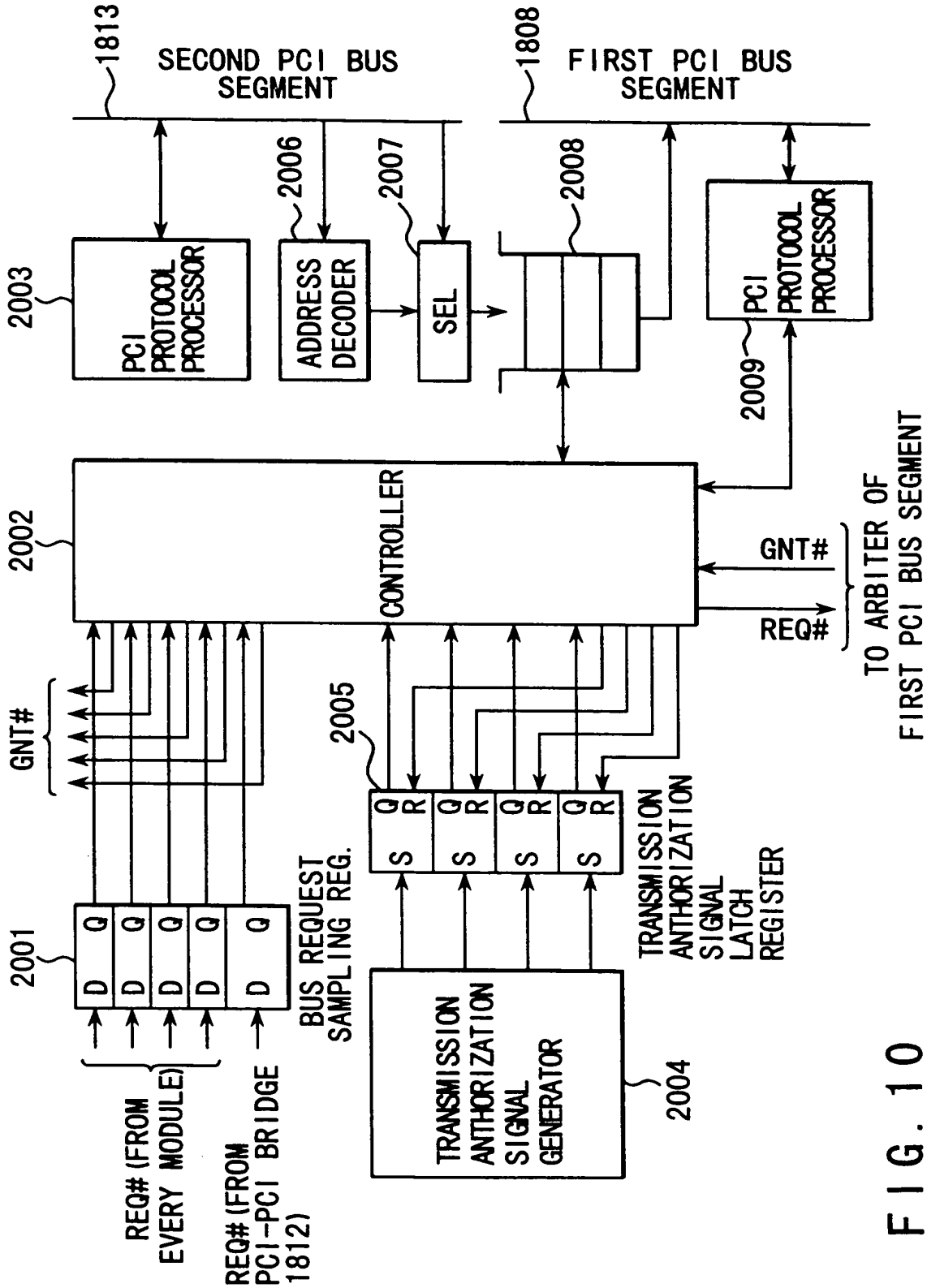

1813
SECOND PCI BUS SEGMENT
1808
FIRST PCI BUS SEGMENT
2003
PCI PROTOCOL PROCESSOR
2006
ADDRESS DECODER
2007
SEL
2008
PCI PROTOCOL PROCESSOR
2009
2002
CONTROLLER
GNT#
REQ#
TO ARBITER OF FIRST PCI BUS SEGMENT
GNT#
2005
BUS REQUEST SAMPLING REG.
TRANSMISSION ANTHORIZATION SIGNAL LATCH REGISTER
2001
REQ# (FROM EVERY MODULE)
REQ# (FROM PCI-PCI BRIDGE 1812)
TRANSMISSION ANTHORIZATION SIGNAL GENERATOR
2004

FIG. 10

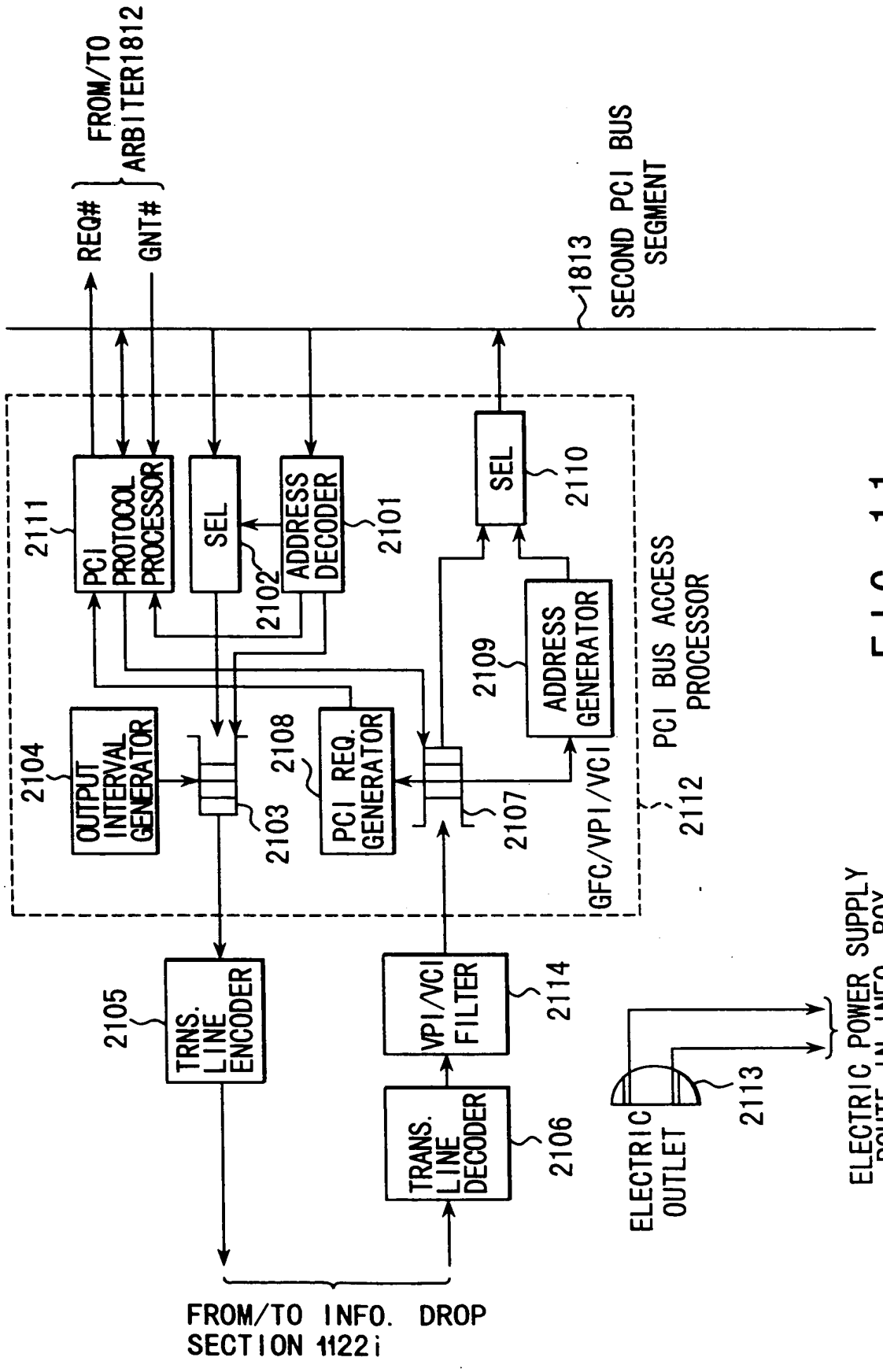

FROM/TO ARBITER1812
REQ#
GNT#
1813
SECOND PCI BUS SEGMENT
PCI PROTOCOL PROCESSOR
2111
SEL
ADDRESS DECODER
2101
2102
SEL
2110
2109
ADDRESS GENERATOR
OUTPUT INTERVAL GENERATOR
2104
2103
2108
PCI REQ. GENERATOR
2107
GFC/VPI/VCI
PCI BUS ACCESS PROCESSOR
2112
TRNS. LINE ENCODER
2105
VPI/VCI FILTER
2114
TRANS. LINE DECODER
2106
ELECTRIC OUTLET
2113
ELECTRIC POWER SUPPLY ROUTE IN INFO. BOX
FROM/TO INFO. DROP SECTION 1122i

FIG. 11

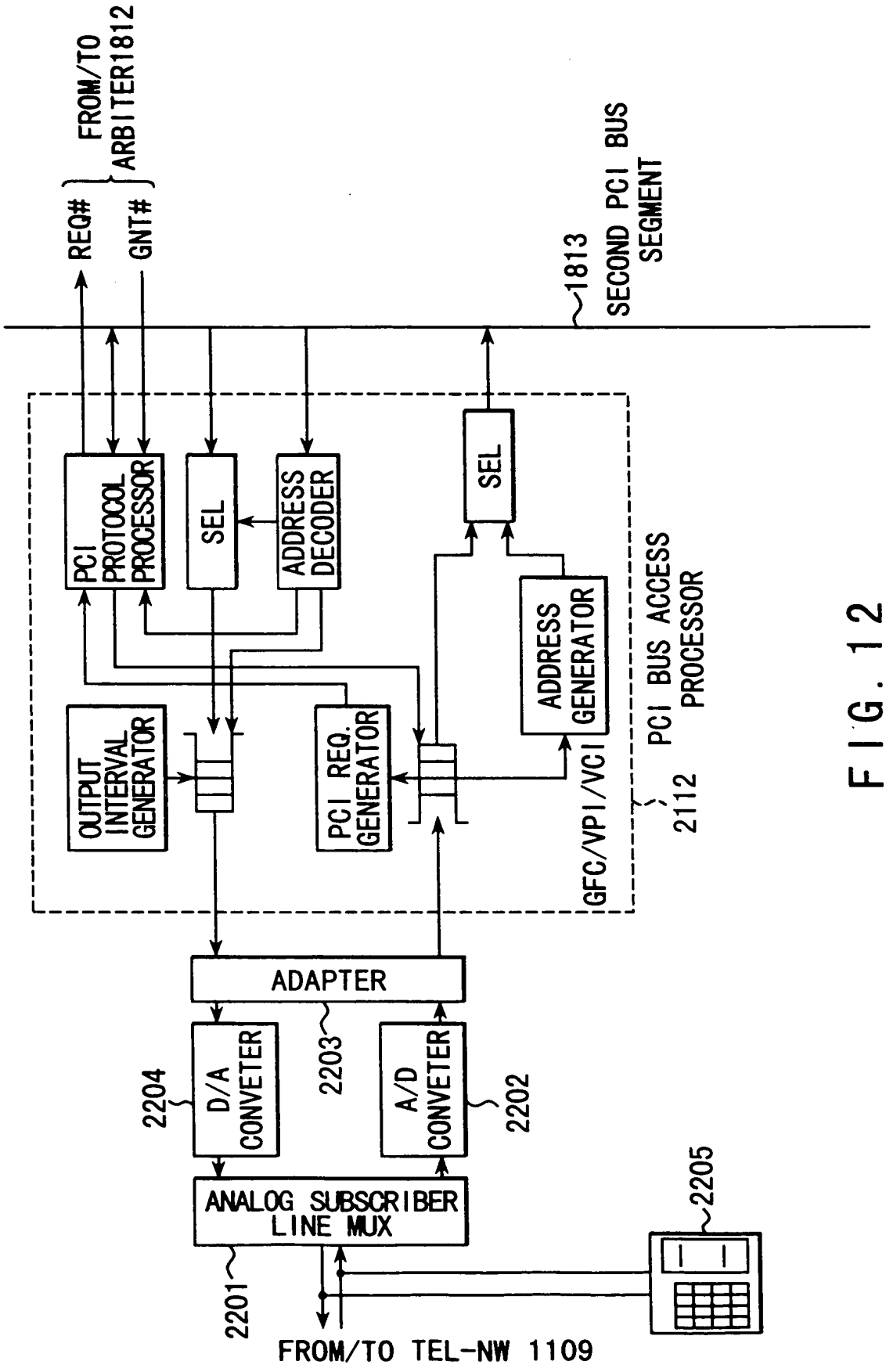

FROM/TO ARBITER1812
REQ#
GNT#
1813
SECOND PCI BUS SEGMENT
PCI PROTOCOL PROCESSOR
SEL
ADDRESS DECODER
SEL
ADDRESS GENERATOR
OUTPUT INTERVAL GENERATOR
PCI REQ. GENERATOR
GFC/VPI/VCI
PCI BUS ACCESS PROCESSOR
2112
ADAPTER
2203
2204
D/A CONVETER
A/D CONVETER
2202
ANALOG SUBSCRIBER LINE MUX
2201
2205
FROM/TO TEL-NW 1109

FIG. 12

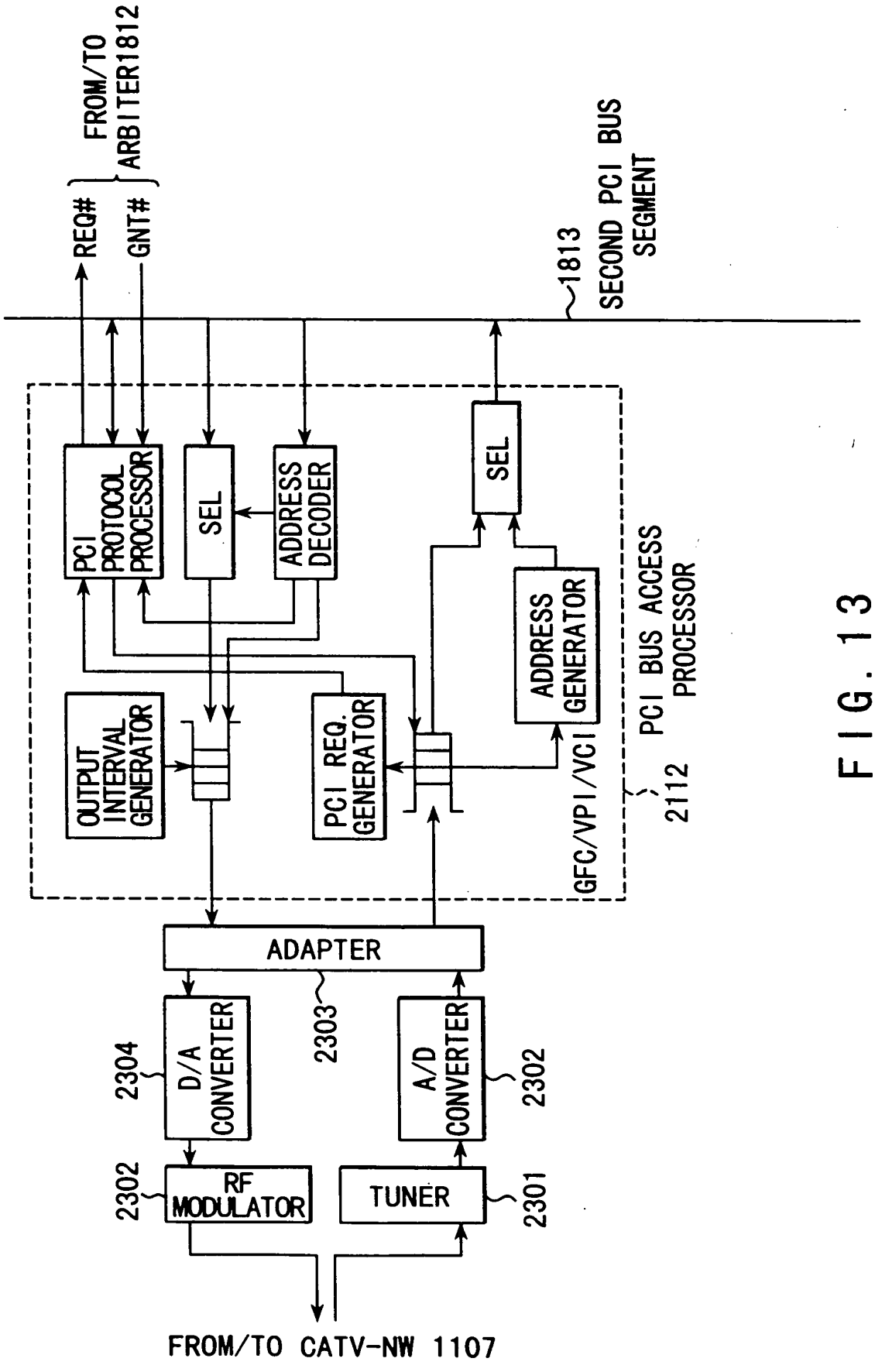

FROM/TO ARBITER1812
REQ#
GNT#
1813
SECOND PCI BUS SEGMENT
PCI PROTOCOL PROCESSOR
SEL
ADDRESS DECODER
SEL
ADDRESS GENERATOR
OUTPUT INTERVAL GENERATOR
PCI REQ. GENERATOR
GFC/VPI/VCI
PCI BUS ACCESS PROCESSOR
2112
ADAPTER
2303
2304
D/A CONVERTER
A/D CONVERTER
2302
2302
RF MODULATOR
TUNER
2301
FROM/TO CATV-NW 1107

FIG. 13

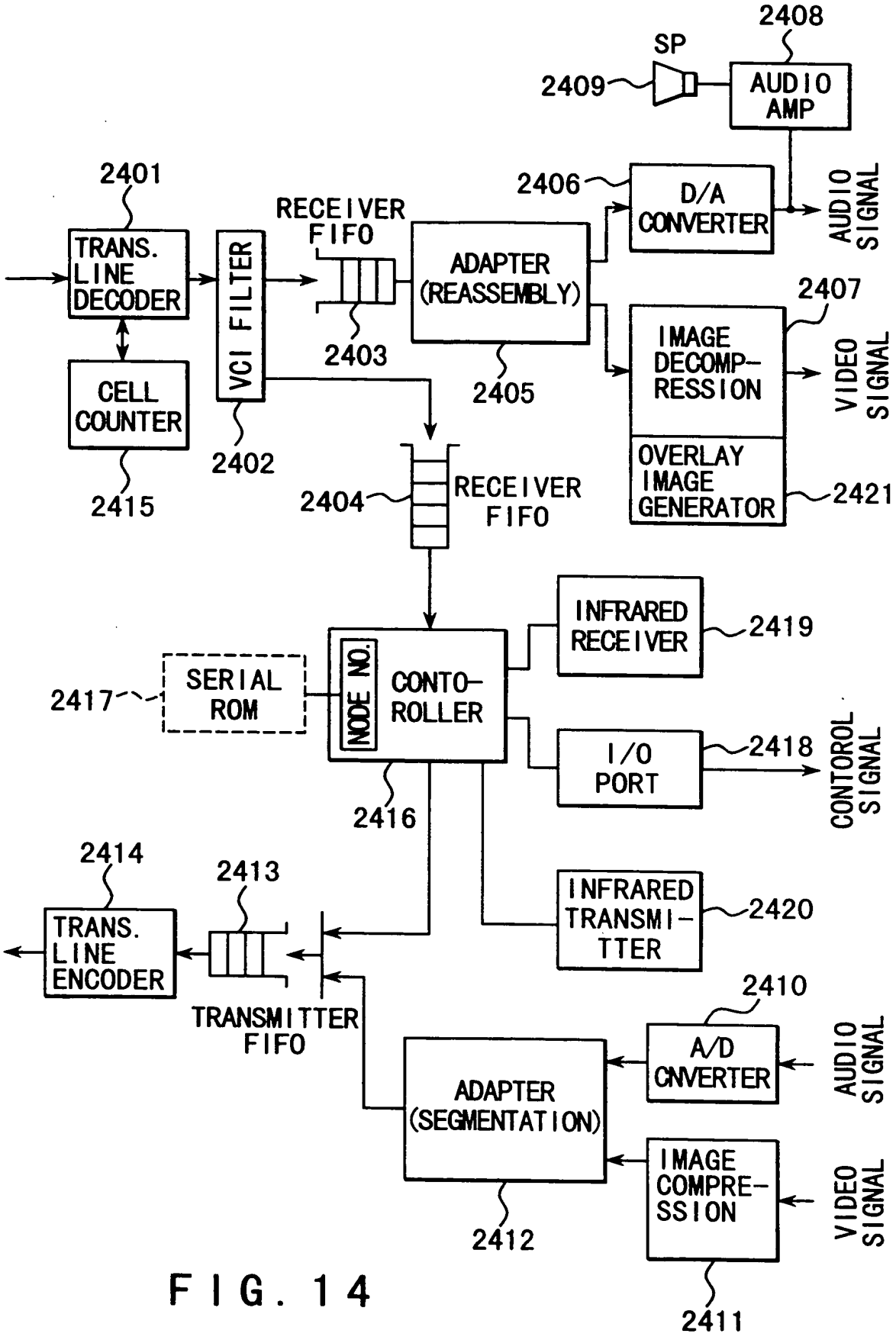

2408
SP
2409
AUDIO AMP
2401
2406
D/A CONVERTER
AUDIO SIGNAL
RECEIVER FIFO
TRANS. LINE DECODER
VCI FILTER
ADAPTER (REASSEMBLY)
2407
IMAGE DECOMP-RESSION
VIDEO SIGNAL
2403
2405
CELL COUNTER
2402
OVERLAY IMAGE GENERATOR
2421
2415
2404
RECEIVER FIFO
INFRARED RECEIVER
2419
2417
SERIAL ROM
NODE NO.
CONTO-ROLLER
I/O PORT
2418
CONTOROL SIGNAL
2416
2414
2413
INFRARED TRANSMI-TTER
2420
TRANS. LINE ENCODER
TRANSMITTER FIFO
2410
A/D CNVERTER
AUDIO SIGNAL
ADAPTER (SEGMENTATION)
IMAGE COMPRE-SSION
VIDEO SIGNAL
2412
2411

FIG. 14

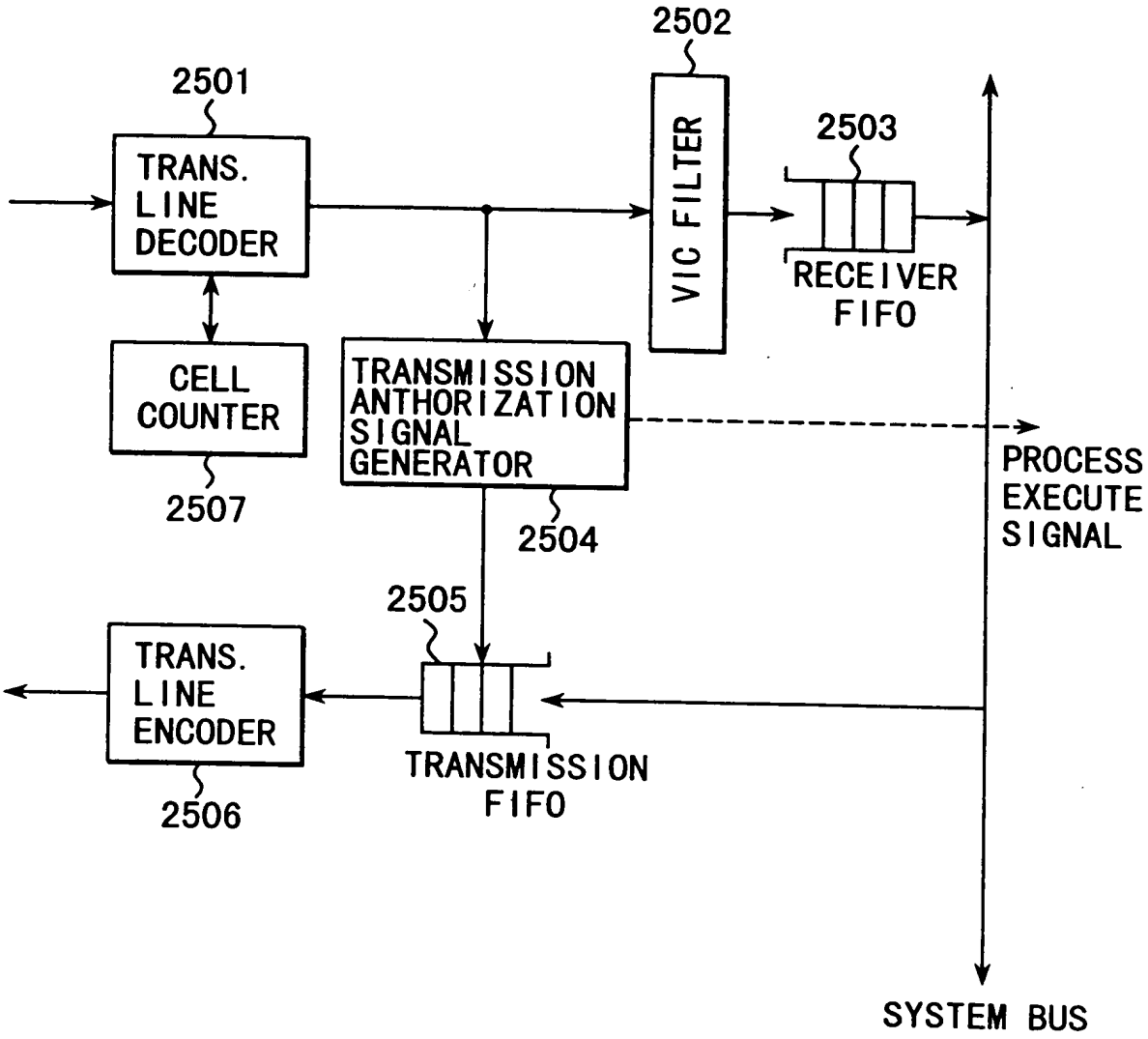

2502
2501
2503
TRANS.
LINE
DECODER
VIC FILTER
RECEIVER
FIFO
CELL
COUNTER
TRANSMISSION
ANTHORIZATION
SIGNAL
GENERATOR
PROCESS
EXECUTE
SIGNAL
2507
2504
2505
TRANS.
LINE
ENCODER
TRANSMISSION
FIFO
2506
SYSTEM BUS

FIG. 15

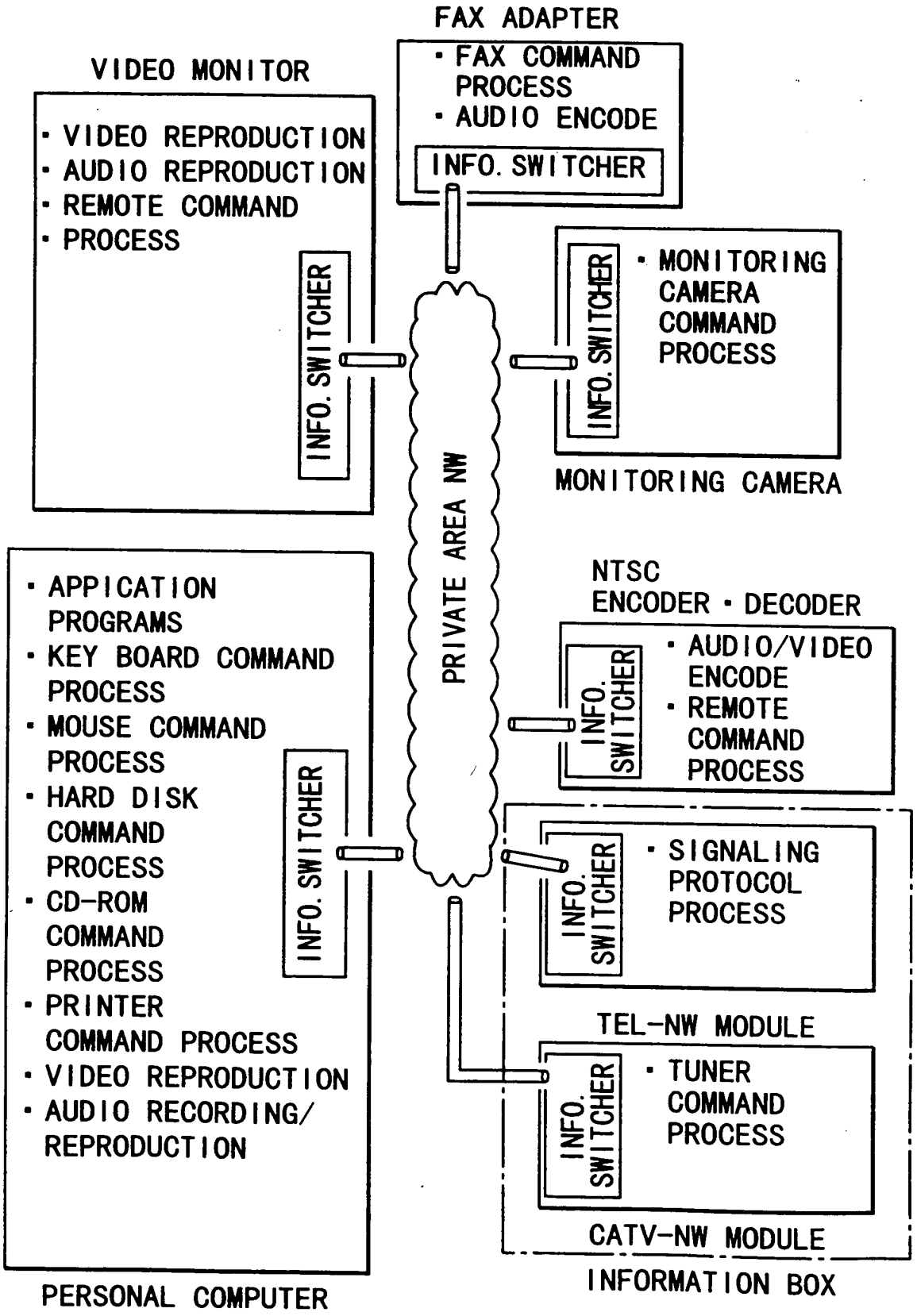

FAX ADAPTER
• FAX COMMAND PROCESS
• AUDIO ENCODE
INFO. SWITCHER
VIDEO MONITOR
• VIDEO REPRODUCTION
• AUDIO REPRODUCTION
• REMOTE COMMAND
• PROCESS
INFO. SWITCHER
PRIVATE AREA NW
INFO. SWITCHER
• MONITORING CAMERA COMMAND PROCESS
MONITORING CAMERA
NTSC ENCODER • DECODER
INFO. SWITCHER
• AUDIO/VIDEO ENCODE
• REMOTE COMMAND PROCESS
• APPICATION PROGRAMS
• KEY BOARD COMMAND PROCESS
• MOUSE COMMAND PROCESS
• HARD DISK COMMAND PROCESS
• CD-ROM COMMAND PROCESS
• PRINTER COMMAND PROCESS
• VIDEO REPRODUCTION
• AUDIO RECORDING/ REPRODUCTION
INFO. SWITCHER
INFO. SWITCHER
• SIGNALING PROTOCOL PROCESS
TEL-NW MODULE
INFO. SWITCHER
• TUNER COMMAND PROCESS
CATV-NW MODULE
PERSONAL COMPUTER
INFORMATION BOX

FIG. 16